

ABSTRACT

1 A hot-swap device applicable to the ATA interface comprises at least an
2 integrated drive electronics (IDE) hard disk drive controller for processing IDE
3 instructions transferred from the ATA interface, wherein at least a program code is
4 provided to the IDE hard disk drive controller for the same to execute and respond
5 to the ATA interface "a virtual storage device" in the case of lacking a real storage
6 device connected to the IDE hard disk drive controller directly or via the ATA
7 interface, or if a "real storage device" is connected with the IDE hard disk drive
8 directly or via the ATA interface, the ATA interface will receive response from the
9 "real storage device".